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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/627,786	07/25/2003	Qing Wan		2669
25859	7590	04/09/2004	EXAMINER LEON, EDWIN A	
WEI TE CHUNG FOXCONN INTERNATIONAL, INC. 1650 MEMOREX DRIVE SANTA CLARA, CA 95050			ART UNIT 2833	PAPER NUMBER

DATE MAILED: 04/09/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/627,786

Applicant(s)

WAN ET AL.

Examiner

Edwin A. León

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-16 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-3, 5 and 7-16 is/are rejected.
- 7) ☒ Claim(s) 4 and 6 is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 0703.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: ____.

DETAILED ACTION

Claim Objections

1. Claim 6 is objected to because of the following informalities: Claim 6 recites the limitation "the grounding claw" in Line 2. There is insufficient antecedent basis for this limitation in the claim. Appropriate correction is required.
2. Claim 13 is objected to because of the following informalities: On Line 1, it should read --two sides-- instead of "tow sides". Appropriate correction is required.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 1-3, 5, and 7-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wu et al. (U.S. Patent No. 6,174,198) in view of Ueno et al. (U.S. Patent No. 6,247,970). With regard to Claims 1-3, 5 and 7-9, Wu et al. discloses an electrical connector assembly, comprising: an insulative housing (10, 20) defining at least two cavities (100, 200); a first (120) and second (21) array of conductive contacts received in the housing (10, 20), each of the first (120) and the second contacts (21)

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partially extending into a corresponding cavity (100, 200); an internal PCB (3) arranged in a rear portion of the housing (10, 20), the internal PCB (3) having a plurality of signal traces (30) and a ground trace (30), at least one array of contacts (120, 21) electrically connecting with the signal traces (30), and an outer shell (50, 51) substantially surrounding the insulative housing (10, 20), the outer shell (50, 51) having a plurality of first tabs (5110). See Figs. 1-4.

However, Wu et al. doesn't show a ground plate disposed between the first and the second contacts.

Ueno et al. discloses a similar connector (10) having a ground plate (28) disposed between the first (22) and the second contacts (25). See Fig. 1.

Therefore, it would have been obvious to one with ordinary skill in the art at the time the invention was made to modify the assembly of Wu et al. by including a ground plate disposed between the first and the second contacts instead of the shell (23) as taught in Ueno et al. in order to use the plate as a partition and to avoid the use of an additional shell.

With regard to Claim 10, Wu et al. discloses a pair of LEDS (130) attached to the internal PCB (3). See Figs. 1-4.

With regard to Claims 11-16, Wu et al. discloses an electrical connector comprising: an insulative housing (10, 20) defining divided first and second cavities (100, 200); a plurality of first contacts (120) and a plurality of second contacts (21) respectively located in the two cavities (100, 200), a front shield (50) covering at least a front face of the housing (10, 20) and defining two opening (5000) to expose the first

and second cavities (100, 200) to an exterior in a front-to-back direction, and a printed circuit board (3). See Figs. 1-4.

However, Wu et al. doesn't show a ground plate located between and separating the first and second cavities.

Ueno et al. discloses a similar connector (10) having a ground plate (28) disposed between the first (where are located 22) and the second cavities (where 25 are located). See Fig. 1.

Therefore, it would have been obvious to one with ordinary skill in the art at the time the invention was made to modify the assembly of Wu et al. by including a ground plate disposed between the first and the second cavities instead of the shell (23) as taught in Ueno et al. in order to use the plate as a partition and to avoid the use of an additional shell.

Allowable Subject Matter

5. Claims 4 and 6 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The references fail to teach, disclose, or suggest, either alone or in combination, the ground plate having a grounding claw extending upwardly from one end thereof, the grounding claw extending beyond the housing for electrically connecting with the outer shell, the front shell defining a depression therein, and the grounding claw of the ground

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plate bears against the depression and in combination with the rest of the limitations of the base and intermediate claims.

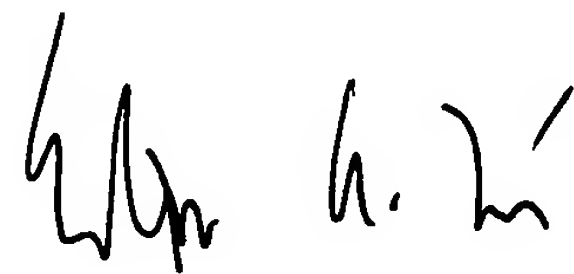
Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Chang et al. (U.S. Patent No. 6,319,051), Chen et al. (U.S. Patent No. 6,183,292), Hu et al. (U.S. Patent No. 6,540,563), and Walker et al. (U.S. Patent No. 6,682,365) disclose USB assemblies having shells, housings and contacts.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Edwin A. León whose telephone number is (571) 272-2008. The examiner can normally be reached on Monday - Friday 10:00-6:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paula A. Bradley can be reached on 571-272-2800, extension 33. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Edwin A. Leon
AU 2833

EAL
April 5, 2004